EXECUTIVE ENGINEER DASARAHALLI PROJECT DIVISION BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Improvements of Asphalting at Kalyana Nagara and Surrounding Area in Mallasandra Ward No. 13 Shettyhalli Sub Division

SI NUMBER.:

Sl No	Description	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Est. Amount = Rate in Rs. 50.00	Lakhs Amount in Rs.
1	Removing and resetting of footpath slab (Page No-265 Item no - 37.6 of KPWD SR 2016-17)..								
	Kalyana Nagara and Surrounding Area Road								
	3rd Main Kalyana Nagara	Sqm	2	300.00	0.90		540.00		
	2nd Main Kalyana Nagara		2	300.00	0.90		540.00		
	10th Cross Kalyana Nagara		2	253.00	0.90		455.40		
	Damaged Cover Slab 10%		2	85.30	0.90		153.54		
						Total Qty	1381.86	132.50	183096.45
2	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No.-142 I.No-19.1 of KPWD S.R 2016-17)								
	Kalyana Nagara and Surrounding Area Road								
	Desilting								
	3rd Main Kalyana Nagara	Cum	2	300.00	0.60	0.35	126.00		
	2nd Main Kalyana Nagara		2	300.00	0.60	0.35	126.00		
	10th Cross Kalyana Nagara		2	253.00	0.60	0.30	91.08		
						Total Qty	343.08	186.92	64128.51
3	Providing and laying pre-cast drain cover slab of 100mm thickness in CM1:3 including cost of all materials,labour,curing, transportation, loading, unloading etc.,as per doiirections of the Enineer-in-charge. {Data Rate sheet enclosed}								
	Kalyana Nagara and Surrounding Area Road								
	Damaged Covering Slab 10% of total length								
	3rd Main Kalyana Nagara	Sqm	2	30.00	0.90		54.00		
	2nd Main Kalyana Nagara		2	30.00	0.90		54.00		
	10th Cross Kalyana Nagara		2	25.30	0.90		45.54		
						Total Qty	153.54	1957.00	300477.78
4	Earth work in soil with hydraulic excavator of 0.9 cu.m. bucket capacity including cutting and loading in tippers, trimming bottom and side slopes. In accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. (Page No,-143, I.No.-19.14 of KPWD S.R 2016-17).								
	Kalyana Nagara and Surrounding Area Road								
	BC Road								
	Pipe line Cutting								
	3rd Main Kalyana Nagara	Cum	1	300.00	1.00	0.70	210.00		
	2nd Main Kalyana Nagara		1	300.00	1.00	0.70	210.00		
	10th Cross Kalyana Nagara		1	253.00	6.50	0.30	493.35		
	Pot Holes		10	2.00	1.50	0.30	9.00		
	Road Cutting		5	5.00	0.40	0.25	2.50		
						Total Qty	924.85	148.76	137580.69
5	0400 Stone dust / Grit (Page No,-II, Sl.No.-50 of KPWD S.R 2016-17).								
	Kalyana Nagara and Surrounding Area Road								
	BC Road								
	Pipe line Cutting	Cum							
	3rd Main Kalyana Nagara		1	300.00	1.00	0.4	120.00		
	2nd Main Kalyana Nagara		1	300.00	1.00	0.4	120.00		
						Total Qty	240.00	864.00	207360.0

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		Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
6	KSRRB M400-6.1. Construction of granular sub-base of Grading II Material by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method (Page No,-155, I.No.-20.4.2 of KPWD S.R 2016-17)								
	Kalyana Nagara and Surrounding Area Road								
	BC Road								
	Pot Holes	Cum	10	2.00	1.50	0.15	4.50		
	Road Cutting		5	5.00	0.40	0.15	1.50		
						Total Qty	6.00	1665.26	9991.56
7	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / ChapterPage no -149.Item.No 19.64 of KPWD S.R 2016-17)								
	Kalyana Nagara and Surrounding Area Road								
	BC Road								
	Pipe line Cutting		1	300.00	1.00		300.00		
	3rd Main Kalyana Nagara		1	300.00	1.00		300.00		
	2nd Main Kalyana Nagara		1	253.00	6.50		1644.50		
	10th Cross Kalyana Nagara	Sqm	10	2.00	1.50		30.00		
	Pot Holes		5	5.00	0.40		10.00		
	Road Cutting					Total Qty	2284.50	5.30	12107.85
8	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (Page No,-158, I.No.-20.18 of KPWD S.R 2016-17).								
	Kalyana Nagara and Surrounding Area Road								
	BC Road								
	Pipe line Cutting		1	300.00	1.00	0.18	54.00		
	3rd Main Kalyana Nagara		1	300.00	1.00	0.18	54.00		
	2nd Main Kalyana Nagara	Cum	1	253.00	6.50	0.18	296.01		
	10th Cross Kalyana Nagara		10	2.00	1.50	0.18	5.40		
	Pot Holes		5	5.00	0.40	0.18	1.80		
	Road Cutting					Total Qty	411.21	1768.08	727052.18
9	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg I sqm using mechanical means complete as per specifications. MORTH Specification No. 502 (Page No,-161, I.No.-21.6 of KPWD S.R 2016-17).								
	Kalyana Nagara and Surrounding Area Road								
	BC Road								
	Pipe line Cutting		1	300.00	1.00		300.00		
	3rd Main Kalyana Nagara		1	300.00	1.00		300.00		
	2nd Main Kalyana Nagara		1	253.00	1.00		253.00		
	10th Cross Kalyana Nagara		10	2.00	1.50		30.00		
	Pot Holes	Sqm	5	5.00	0.40		10.00		
	Road Cutting								
	Profile correction		1	300.00	1.50		450.00		
	3rd Main Kalyana Nagara		1	300.00	1.40		420.00		
	2nd Main Kalyana Nagara		1	253.00	6.50		1644.50		
	10th Cross Kalyana Nagara					Total Qty	3407.50	27.56	93910.70

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			Dimension					
			L	B	D	Quantity	Rate in Rs.	Amount in Rs.
	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, loader, HOM of machineries complete as per specifications. MORTH specification clause 501 (Page No:160, Item No:21.2 SR:2015-16)							
	Kalyana Nagara and Surrounding Area Road							
	BC Road							
	Pipe line Cutting							
	3rd Main Kalyana Nagara	Sqm	1	300.00	1.50	450.00		
	2nd Main Kalyana Nagara		1	300.00	1.40	420.00		
	10th Cross Kalyana Nagara		1	253.00	6.50	1644.50		
					Total Qty	2514.50	3.18	7996.11
	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH (Page No,-160, I.No.-21.7 of KPWD S.R 2016-17).							
	Kalyana Nagara and Surrounding Area Road							
	BC Road							
	Pipe line Cutting							
	3rd Main Kalyana Nagara	Sqm	1	300.00	5.20	1560.00		
	2nd Main Kalyana Nagara		1	300.00	5.50	1650.00		
	10th Cross Kalyana Nagara		1	253.00	6.50	1644.50		
					Total Qty	4854.50	12.72	61749.24
	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mixformula for base / binding course including loading of aggregates withF.E. loader, hot mixing of stone aggregates and bitumen in hot mixplant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer/ tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications.(Page No,-162, I.No.-21.11.6 of KPWD S.R 2016-17).							
	Kalyana Nagara and Surrounding Area Road							
	BC Road							
	Pipe line Cutting							
	3rd Main Kalyana Nagara	Cum	1	300.00	1.00	0.05	15.00	
	2nd Main Kalyana Nagara		1	300.00	1.00	0.05	15.00	
	Pot hole		10	2.00	1.50	0.05	1.50	
	Road Cutting		5	5.00	0.40	0.05	0.50	
	Profile correction							
	3rd Main Kalyana Nagara		1	300.00	1.50	0.05	22.50	
	2nd Main Kalyana Nagara		1	300.00	1.40	0.05	21.00	
	10th Cross Kalyana Nagara		1	253.00	6.50	0.05	82.23	
						Total Qty	157.73	5730.36	903821.03
13	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using40/60 VG-30 Bitumen using 120 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 5.4 % crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification (Page No,-165, I.No.-21.22.6 of KPWD S.R 2016-17).							
	Kalyana Nagara and Surrounding Area Road							
	BC Road							
	3rd Main Kalyana Nagara	Cum	1	300.00	5.20	0.04	62.40	
	2nd Main Kalyana Nagara		1	300.00	5.50	0.04	66.00	
	10th Cross Kalyana Nagara		1	253.00	6.50	0.04	65.78	
						Total Qty	194.18	8118.54	1576458.10

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Detailed Estimate

Description	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface - Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sq.m. area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC :35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (Page No,-185, I.No.-24.15 of KPWD S.R 2016-17).							
BC Road							
Road Marking	Sqm	2	853.00	0.15			
					255.90		
				Total Qty	255.90	542.72	138882.05
						Total Constrution cost	44,24,612.24
						Design Report,Proof Checking & PMC Amount	88,492.24
						KRDL Charges 11%	4,86,707.35
						Sub Total	49,99,811.83
						Miscellaneous & Rounding Off	188.17
						Grand Total	50,00,000.00

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2016-17
4. The provisions made in the estimate are necessary and essential.

Consultants
For Sri Sai Consultants

Assistant Engineer
Dasarahalli Project Division
BBMP - Bangalore

Assistant Executive Engineer
Dasarahalli Project Division
BBMP - Bangalore

Executive Engineer
Dasarahalli Project Division
BBMP - Bangalore

ನಂ: 41/17-18 ದಿನಾಂಕ: 20/12/2017
ರೂ: 50,00,000/-
Fifty Lakh only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯೋಜನಾ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬಿಬಿಎಂಪಿ.

ನಂ.CE/TS/380/17-18 ದಿನಾಂಕ : 21/12/2017
ರೂ. Rs. 50.00 Lakhs Only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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